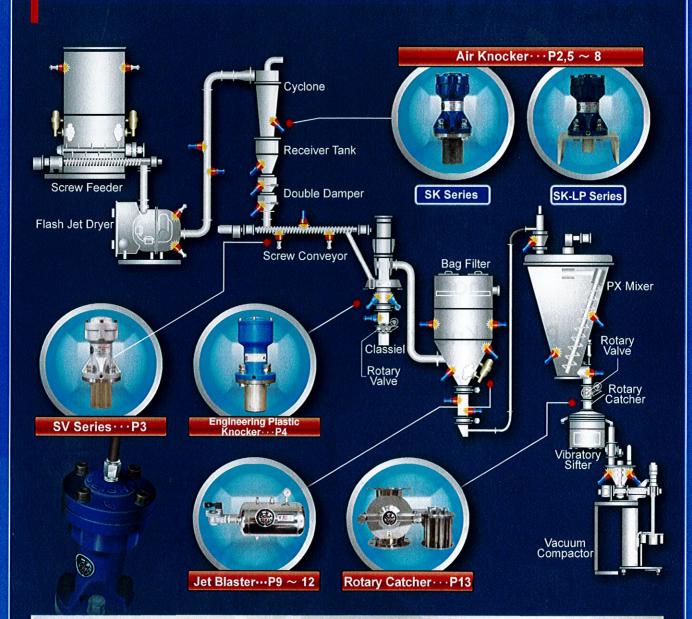


Troubleshooting Trouble Prevention Equipment Catalog



SEISHIN's Powder trouble solving equipment / Index



Powder trouble solving equipment / Index

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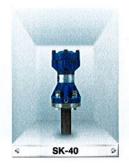
Air Knocker

Standard type

SK Series

Troubleshooting

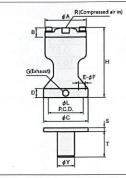












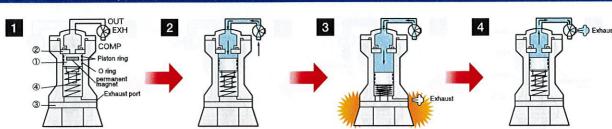
%Total weight includes weight of base bolt and base plate. Paint color: Mancell5PB3/9

- ♠ Please attach the Airknocker SK type to the base plate and operate it.
- If it is operated only with the main body, the inside may be damaged.
- Fall prevention wire is optional, but please be sure to install it.
- ♠ Please attach reinforcing ribs referring to "Air knocker mounting method" on page 8

	Model	SK-30	SK-40	SK-60	SK-80	SK-100
S	Pressure	0.35~0.6MPa	0.35~0.6MPa	0.35~0.6MPa	0.35~0.6MPa	0.35~0.6MPa
~	Air consumption	CONTRACTOR CONTRACTOR	0.082 ℓ / time	0.228 / time	0.455 ℓ / time	1.012ℓ / time
ဨ	Air consumption	0.028 ℓ / time				
Ħ	Impact power	1.0~1.5Ns	3.3~5.1Ns	7.1~10.8Ns	19.3~29.5Ns	44.5~67.9Ns
င္မ	Body weight	0.7kg	1.8kg	4.6kg	7.9kg	23.5kg
₫.	Total weight	1.0kg	2.9kg	7.8kg	11.8kg	35.2kg
<u> </u>	Body material	Alminium casting	Alminium casting	Alminium casting	Alminium casting	Casting iron
5	φA	65	90	120	139	176
3.	В	15	22	30	40	44
P	φC	70	95	140	150	210
Dimension	D	10	16	16	18	24
3	E	4	4	4	4	6
	F	9	11 🖁	15	17	21
	G	1/8	1/8	1/4	3/8	3/8
	Н	110	160	210	250	328
	φL	55	70	110	120	170
	S	6	12	12	14	22
	Т	40	90	100	110	145
	φY	27.2	34.0	76.3	76.3	114.3
	R	1/4	1/4	1/4	3/8	3/8

(mm)

Air knocker SK type operation principle



When air pressure is not infused into the cylinder from the three-phase solenoid valve, the magnetic piston 1 attaches the Anchor plate2 firmly.

Turn on the switch to electrify the Three-phase solenoid valve. When air pressure becomes enough to detach the Magnetic piston from the Anchor plate, the Magnetic piston hits the Base plate3 with a high

The Base plate indirectly transmits a shock to the inside of a hopper, which breaks down the bridge or formation of powder in the hopper.

Tunr off the swith and the compressed air remaining in the Cylinder is exhaus -eted through the three-phase solenoid valve. The Magnetic piston is replaced by the Return spring 4

Part drawing of Air knocker SK type and part names

- 1 Head Flange
- 2 Bolt with Hexagonal Hole
- 3 Wasehr
- O ring for Head Flange
- O ring for Anchor plate (SK80 and 100 use gasket)
 Anchor plate
- Magnetic Piton
- 8 Point Bush
- 0000









- 9 Piston Ring
- O ring for Piston
- Return Spring Spring Washer
- Washer
- 13 Hard Lock Nut
- Base Bolt Base Plate

(B) Main Body

CHIYODA KOHAN (S) PTE LTD

1092 Lower Delta Road #01-08 Singapore 169203

Tel: (65) 6278 6780 Fax: (65) 6278 6779

Exclusive for air knocker and engineering plastic knocker

Control Box

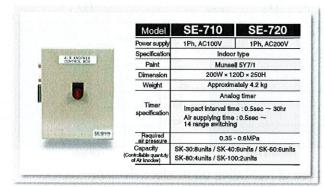
CHIYODA KOHAN (S) PTE LTD

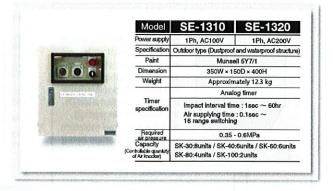
1092 Lower Delta Road #01-08

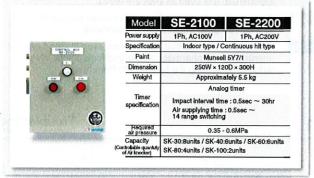
Singapore 169203

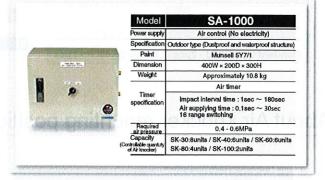
Tel: (65) 6278 6780 Fax: (65) 6278 6779

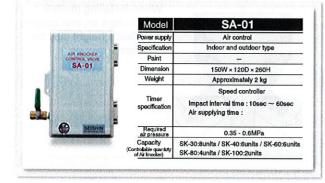
Troubleshooting







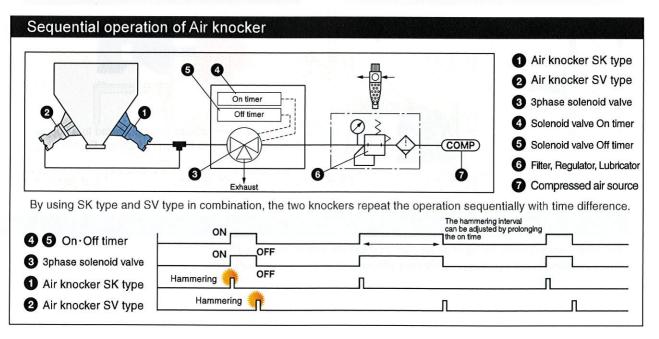




Production of special order control panel, Improvement of current control panel

In accordance with your request, we will also manufacture custom control panels such as changing the material of the box, increasing the number of control circuits, adapting to electrical explosion-proof specifications, and designating IP standards.

Please contact us for details.



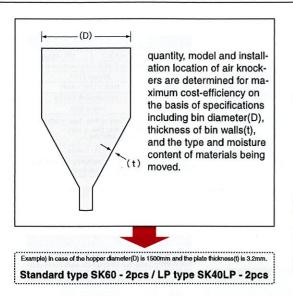
CHIYODA KOHAN (S) PTE LTD

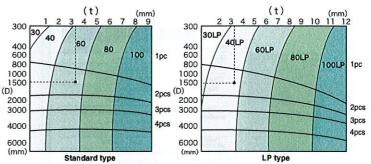
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Troubleshooting

About the model choice of Air knocker





▼ In case of hesitation on model selection

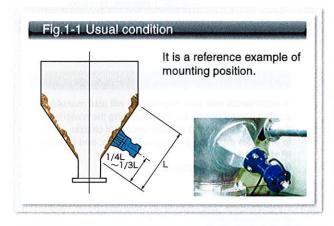
SK Series ... It is a standard of the knocker that boasts many years of experience. It is used all over the world.

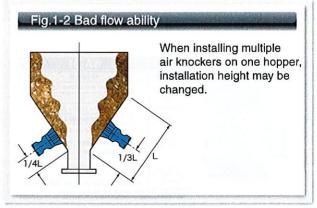
SV Series ... By pressure adjustment, impact force can be varied, so it can be used under optimal conditions.

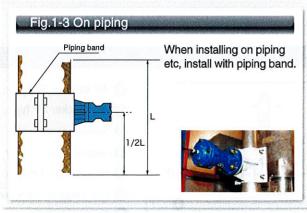
SKL Series ... This type is a series that you can use even in clean environ -ments such as pharmaceuticals and food plants. Weight reduced by making it a body made from resin.

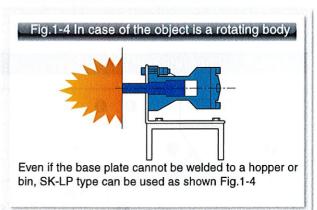
About Air knocker mounting position

Troubleshooting









In case of installing in a high-temperature place

The heat-resistant temperature of air knocker of standard specification is 60?. When installing to the high temperature part, please use air knocker of heat resistant specification. Please contact the dealer for details.

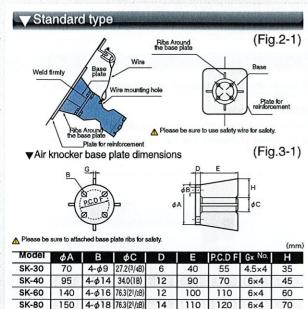
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Tel: (65) 6278 6780 Fax: (65) 6278 6779

Troubleshooting

Mounting method of Air knocker



- (Fig.2-2) (Fig.3-1) ▼Air knocker base plate dimensions Model φD SK-30LP 50 100 4-ø9 100 SK-40LP 75 150 47 4-014 70 150 SK-60LP 90 200 64 4-016 110 200 SK-80LP 90 200 75 4-018 120 200 SK-100LP 90 250 85 $6-\phi 22$ 170 250
- ①Attache a base plate on an object by welding firmly. In case that the wall of the object is thin, put a plate for reinforcement of the object before attaching ribs around the base plate.

22

145

170

12×6

90

- ②Attach ribs around the base plate for reinforcement. (Refer Fig.3-1)
- 3Attach an air knocker on the base plate by bolts. Tighten a hard lock nut firmly.

210 6-622 114.3

4Link a chain or wire between the wire hall of air knocker and the stage for safety. (Refer Fig.2 and page9)

Dimension of plate for reinforcement (Reference) - In case of standard type (Fig.4)



(Fig.4)-1 ($t=3\sim5$ mm)

(Fig.4)-1 (t=3~5mm)

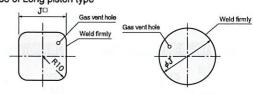
φI	φ J ⋅ J □
5	150
15	250
40	300
40	350
40	450
	5 15 40 40

* Reference example

* Reference example

Dimension of plate for reinforcement (Reference) - In case of Long piston type

(Fig.5)



(Fig.5)-1 (t=3~5mm)

(Fig.5)-1 (t=3~5mm)

Recommended welding rod

In case of SS

SK-100

[For manual] ... JIS Z3211 E4316 equivalency product [Semi automatic] ... JIS Z3312 YGW12 equivalency product

In case of SUS304

[For manual] ... JIS Z3221 ES308-16 equivalency product

[Semi automatic] ··· JIS Z3323 T308-FB0 equivalency product

[TIG welding] ···JIS Z3321 YS308 equivalency product

Model	φJ⋅J□	
30	φ J·J □ 150	
40	250	
60	300	
80	350	
100	450	
Potoronoo ovampla		(mm)

Please attach the base plate in the arrow direction as shown in Fig. 6 against the object to be mounted.

This method is because the four base bolts are equally loaded and the adverse effect on the knocker body is small.

